

ABSTRACT OF THE DISCLOSURE

The present invention relates to an ankyrin repeat-rich membrane spanning (ARMS) polypeptide which is a downstream target of neurotrophin and ephrin receptor tyrosine kinases. This ARMS polypeptide contains 1715 amino acid residues including four transmembrane domains, multiple ankyrin repeats, a sterile α motif domain, and a PDZ-binding motif. Immunofluorescence studies with anti-ARMS antibodies have found ARMS to be localized discretely to the growth cone of neurons.

F:\N\nyum\chao 11 A\pto\specification.doc